

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 58-075901

(43)Date of publication of application : 07.05.1983

(51)Int.Cl.

H01P 1/18

(21)Application number : 56-174075

(71)Applicant : NEC CORP

(22)Date of filing : 30.10.1981

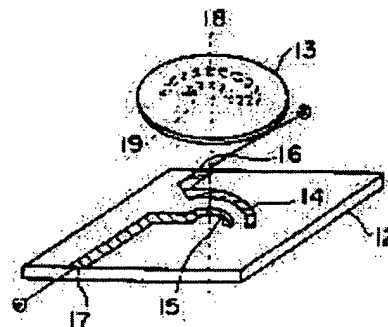
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(54) VARIABLE PHASE SHIFTER

(57)Abstract:

PURPOSE: To obtain a small-sized, inexpensive variable phase shifter which performs phase variation without exerting any influence upon mechanical distance between an input and an output, by stacking two conductor substrates which rotates in opposition one over another, and forming concentric semicircular lines on their opposite surfaces.

CONSTITUTION: On one surface of a fixed dielectric substrate (stator) 12, two concentric semicircular conductor lines 14 and 15 having one-side terminals as an input terminal 16 and an output terminal 17 and also having the other-side terminals not connected, but opened are formed. On one surface of a rotary dielectric substrate (rotor) 13, on the other hand, two concentric semicircular conductor lines 18 and 19 having one-side terminals opened and the other-side terminals connected together are formed. Then, the stator 12 and rotor 13 are stacked in such a way that the surfaces where the lines are formed face to each other, and are rotated while the rotor 13 comes into contact with the stator 12; and a signal inputted to the input terminal of the stator 12 is led out from the output terminal through the connection part of the rotor 13, and the connection part is shifted in position to perform phase variation between the input and output.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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